MARYLAND DEPARTMENT OF THE ENVIRONMENT
1800 Washington Boulevard • Suite 605 • Baltimore, Maryland 21230-1719
410-537-3375 • 800-633-6101 x3375 • www.mde.state.md.us
Waste Management Administration • Solid Waste Program

Coal Combustion Byproducts (CCB) Annual Generator Tonnage Report

Instructions for Calendar Year 2010

The following is general information relating to the requirement for reporting quantities of coal combustion byproducts that were managed in the State of Maryland during calendar year 2010. Please answer the questions on the form provided, attaching additional information and any requested supplemental information to the back of the form. Questions can be directed to the Solid Waste Program at (410) 537-3318 or via email at edexter@mde.state.md.us.

I. Background. This requirement that generators of coal combustion byproducts (CCBs) submit an annual report was instituted in the Code of Maryland Regulations COMAR 26.04.10.08, that was promulgated effective December 1, 2008. The regulation requires that any non-residential generator of CCBs submit a report to the Department by March 1 of each year describing the manner in which CCBs generated within the State were managed during the preceding calendar year. Additional information and specific instructions follow. For more detailed information, please refer to COMAR 26.04.10.08.

II. General Information and Applicability.

A. Definitions. Coal combustion byproducts are defined in COMAR 26.04.10.02B as:

> *"(3) Coal Combustion Byproducts. (a) "Coal combustion byproducts" means the residue generated by or resulting from the burning of coal.*
> *(b) "Coal combustion byproducts" includes fly ash, bottom ash, boiler slag, pozzolan, and other solid residuals removed by air pollution control devices from the flue gas and combustion chambers of coal burning furnaces and boilers, including flue gas desulfurization sludge and other solid residuals recovered from flue gas by wet or dry methods. "*

A generator of CCBs is defined in COMAR 26.04.10.02B as:

> *"(9) Generator.*
> *(a) "Generator" means a person whose operations, activities, processes, or actions create coal combustion byproducts.*
> *(b) "Generator" does not include a person who only generates coal combustion byproducts by burning coal at a private residence."*

B. Applicability. **If you or your company meet the definition of a generator of CCBs as defined above, you must provide the information as required below**. For the purposes of this report, "you" shall hereinafter refer to the generator defined above. Please note that COMAR 26.04.10.08 requires generators of CCBs to submit an annual report to the Department

concerning the disposition of the CCBs that they generated the previous year. **THIS INCLUDES CCBS THAT WERE NOT SEPERATELY COLLECTED BUT WERE PRODUCED BY THE BURNING OF COAL AND WERE DIRECTLY CONTRIBUTED TO A PRODUCT, such as cement.** Where the amount cannot be directly measured, estimates based on the amount of coal burned can be used. The method of determining the volume of CCBs produced must be described.

III. Required Information. The following information must be provided to the Department by March 1, 2009:

A. Contact information:

Facility Name: Mettiki Coal, LLC

Name of Permit Holder: Mettiki Coal, LLC

Facility Address: 293 Table Rock Road
Street

Facility Address: Oakland Maryland 21550
City State Zip

County: Garrett

Contact Information (Person filing report or Environmental Manager)

Facility Telephone No.: 301-334-5336 Facility Fax No.: 301-334-1602

Contact Name: James C. Ashby

Contact Title: Manager, Environmental Affairs

Contact Address: 293 Table Rock Road
Street

Contact Address: Oakland Maryland 21550
City State Zip

Contact Email: jim.ashby@arlp.com

Contact Telephone No.: 301-334-5336 Contact Fax No.: 301-334-1602

For questions on how to complete this form, please call Edward Dexter, Solid Waste Program at 410-537-3318.

B. A description of the process that generates the coal combustion byproducts, including the type of coal or other raw material that generates the coal combustion byproducts. If the space provided is insufficient, please attach additional pages:

Coal thermal dryer burning bituminous coal. Raw Coal is first sent to the preparation plant where it is washed in a water bath to reduce sulfur and ash content. In the final stage of preparation, hot air from pulverized coal burners is passed through a fuidized bed of the wet washed coal in the thermal dryer to reduce the moisture content of the processed coal from approximately 15% to approximately 5% for shipment.

C. The volume of coal combustion byproducts generated during 5 calendar 2101, including an identification of the different types of coal combustion byproducts generated and the volume of each type generated. If the space provided is insufficient, please attach additional pages in a similar format:

Table I: Volume of CCBs Generated for Calendar 2010:

Reporting Year	Volume of CCB Type: Dryer Ash	Volume of CCB Type:	Volume of CCB Type:
2010	30,273 cu. yds/1,892 tons		

Additional notes:

D. Descriptions of any modeling or risk assessments, or both, conducted relating to the coal combustion byproducts or their use, that were performed by you or your company during the reporting year. Please attach this information to the report. **NONE**

E. Copies of all laboratory reports of all chemical characterizations of the coal combustion byproducts. Please attach this information to the report. **See Attachment 1**

F. A description of how you disposed of or used your coal combustion byproducts in calendar 2010, identifying:

(a) The types and volume of coal combustion byproducts disposed of or used (if different than described in Paragraph C above), the location of disposal, mine reclamation and use sites, and the type and volume of coal combustion byproducts disposed of or used at each site:

Volumes presented in Table 1 are disposed in MDE Permit # DM 84-101 refuse disposal site on Mettiki owned property near the mine in Garrett County Maryland. Material is comingled with alkaline materials on site for reclamation.

and (b) The different uses by type and volume of coal combustion byproducts:

All volumes are for disposal in permitted site.

If the space provided is insufficient, please attach additional pages in a similar format. . (Please note that in subsequent years you need only provide the information in Section F for the last calendar year).

G. A description of how you intend to dispose of or use coal combustion byproducts in the next 5 years, identifying:

(a) The types and volume of coal combustion byproducts intended to be disposed of or used, the location of intended disposal, mine reclamation and use sites, and the type and volume of coal combustion byproducts intended to be disposed of or used at each site:

The five (5) year average of approximately 29,922 cu/ft (1,870 tons) per year of ash is expected to be placed in our permitted coal refuse disposal site.

and (b) The different intended uses by type and volume of coal combustion byproducts.

Disposal/Reclamation

If the space provided is insufficient, please attach additional pages in a similar format.

IV. Signature and Certification. An authorized official of the generator must sign the annual report, and certify as to the accuracy and completeness of the information contained in the annual report:

This is to certify that, to the best of my knowledge, the information contained in this report and any attached documents are true, accurate, and complete.		
Michael Burch Signature	Michael Burch, General Manager, 301-334-5331 Name, Title, & Telephone No. (Print or Type) mike.burch@arlp.com Your Email Address	3-8-2011 Date

Attachment 1

Lancaster Laboratories

Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: Mettiki Dryer Ash
Ash Sampling 2010

LLI Sample # SW 6143181
LLI Group # 1221670
Account # 07329

Project Name: Ash Sampling 2010

Collected: 11/16/2010 10:30 by JA

Submitted: 11/17/2010 09:40
Reported: 12/02/2010 10:39

Mettiki Coal Corporation
293 Table Rock Road
Oakland MD 21550

MDAAR

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Dilution Factor
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	
01643	Aluminum	7429-90-5	561		4.93	1
06944	Antimony	7440-36-0	N.D.		0.980	1
06935	Arsenic	7440-38-2	0.975	J	0.931	1
06946	Barium	7440-39-3	19.7		0.0392	1
06947	Beryllium	7440-41-7	N.D.		0.0667	1
07914	Boron	7440-42-8	1.17	J	0.873	1
06949	Cadmium	7440-43-9	N.D.		0.137	1
01650	Calcium	7440-70-2	496		6.01	1
06951	Chromium	7440-47-3	2.99		0.578	1
06952	Cobalt	7440-48-4	2.23		0.186	1
06953	Copper	7440-50-8	36.0		0.216	1
01654	Iron	7439-89-6	4,480		4.62	1
06955	Lead	7439-92-1	N.D.		0.588	1
01656	Lithium	7439-93-2	7.5		0.22	1
01657	Magnesium	7439-95-4	95.5		2.49	1
06958	Manganese	7439-96-5	5.42		0.0765	1
06960	Molybdenum	7439-98-7	N.D.		0.441	1
06961	Nickel	7440-02-0	7.70		0.186	1
01662	Potassium	7440-09-7	987		17.6	1
06936	Selenium	7782-49-2	N.D.		0.961	1
06966	Silver	7440-22-4	N.D.		0.176	1
01667	Sodium	7440-23-5	561		36.6	1
06925	Thallium	7440-28-0	N.D.		1.42	1
06971	Vanadium	7440-62-2	3.52		0.186	1
06972	Zinc	7440-66-6	0.782	J	0.647	1
		SW-846 7471A	**mg/kg**		**mg/kg**	
00159	Mercury	7439-97-6	N.D.		0.0028	1
Wet Chemistry		**SM20 2540 G**	**%**		**%**	
00111	Moisture	n.a.	N.D.		0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	103225708001	11/19/2010 17:08	John P Hook	1
06944	Antimony	SW-846 6010B	1	103225708001	11/19/2010 17:08	John P Hook	1
06935	Arsenic	SW-846 6010B	1	103225708001	11/19/2010 17:08	John P Hook	1
06946	Barium	SW-846 6010B	1	103225708001	11/19/2010 17:08	John P Hook	1
06947	Beryllium	SW-846 6010B	1	103225708001	11/19/2010 17:08	John P Hook	1

Attachment 1

Lancaster Laboratories

Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: Mettiki Dryer Ash
Ash Sampling 2010

LLI Sample # SW 6143181
LLI Group # 1221670
Account # 07329

Project Name: Ash Sampling 2010

Collected: 11/16/2010 10:30 by JA

Submitted: 11/17/2010 09:40
Reported: 12/02/2010 10:39

Mettiki Coal Corporation
293 Table Rock Road
Oakland MD 21550

MDAAR

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	103225708001	11/19/2010 17:08	John P Hook	1
06949	Cadmium	SW-846 6010B	1	103225708001	11/19/2010 17:08	John P Hook	1
01650	Calcium	SW-846 6010B	1	103225708001	11/19/2010 17:08	John P Hook	1
06951	Chromium	SW-846 6010B	1	103225708001	11/19/2010 17:08	John P Hook	1
06952	Cobalt	SW-846 6010B	1	103225708001	11/19/2010 17:08	John P Hook	1
06953	Copper	SW-846 6010B	1	103225708001	11/19/2010 17:08	John P Hook	1
01654	Iron	SW-846 6010B	1	103225708001	11/19/2010 17:08	John P Hook	1
06955	Lead	SW-846 6010B	1	103225708001	11/19/2010 17:08	John P Hook	1
01656	Lithium	SW-846 6010B	1	103265708006	11/23/2010 15:27	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	103225708001	11/19/2010 17:08	John P Hook	1
06958	Manganese	SW-846 6010B	1	103225708001	11/19/2010 17:08	John P Hook	1
06960	Molybdenum	SW-846 6010B	1	103225708001	11/19/2010 17:08	John P Hook	1
06961	Nickel	SW-846 6010B	1	103225708001	11/19/2010 17:08	John P Hook	1
01662	Potassium	SW-846 6010B	1	103225708001	11/19/2010 17:08	John P Hook	1
06936	Selenium	SW-846 6010B	1	103225708001	11/19/2010 17:08	John P Hook	1
06966	Silver	SW-846 6010B	1	103225708001	11/19/2010 17:08	John P Hook	1
01667	Sodium	SW-846 6010B	1	103225708001	11/19/2010 17:08	John P Hook	1
06925	Thallium	SW-846 6010B	1	103225708001	11/19/2010 17:08	John P Hook	1
06971	Vanadium	SW-846 6010B	1	103225708001	11/19/2010 17:08	John P Hook	1
06972	Zinc	SW-846 6010B	1	103225708001	11/19/2010 17:08	John P Hook	1
00159	Mercury	SW-846 7471A	1	103225711001	11/18/2010 18:54	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103225708001	11/18/2010 12:26	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103265708006	11/22/2010 20:15	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103225711001	11/18/2010 13:33	James L Mertz	1
00111	Moisture	SM20 2540 G	1	10326820006A	11/22/2010 22:48	Scott W Freisher	1

Attachment 1

Lancaster Laboratories

Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fax:717-656-2681• www.lancasterlabs.com

Sample Description: Mettiki Dryer Ash
TCLP NON-VOLATILE EXTRACTION
Ash Sampling 2010

LLI Sample # TL 6143182
LLI Group # 1221670
Account # 07329

Project Name: Ash Sampling 2010

Collected: 11/16/2010 10:30 by JA

Submitted: 11/17/2010 09:40
Reported: 12/02/2010 10:39

Mettiki Coal Corporation
293 Table Rock Road
Oakland MD 21550

MDANV

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	1.23	0.0834	1
07035	Arsenic	7440-38-2	0.0132 J	0.0098	1
07046	Barium	7440-39-3	0.432	0.0060	10
	Reporting limits were raised due to interference from the sample matrix. The barium result was performed by the Method of Standard Addition.				
07049	Cadmium	7440-43-9	N.D.	0.0020	1
07051	Chromium	7440-47-3	N.D.	0.0034	1
07053	Copper	7440-50-8	0.0765	0.0027	1
07055	Lead	7439-92-1	N.D.	0.0069	1
07058	Manganese	7439-96-5	0.0346	0.00084	1
07036	Selenium	7782-49-2	N.D.	0.0089	1
07066	Silver	7440-22-4	0.0168	0.0023	1
07072	Zinc	7440-66-6	0.0730	0.0081	1
	SW-846 7470A		**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000056	1

General Sample Comments

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01743	Aluminum	SW-846 6010B	1	103275705002	11/29/2010 11:19	Joanne M Gates	1
07035	Arsenic	SW-846 6010B	1	103275705002	11/27/2010 11:43	Eric L Eby	1
07046	Barium	SW-846 6010B	2	103275705002	11/29/2010 12:54	Joanne M Gates	10
07049	Cadmium	SW-846 6010B	1	103275705002	11/27/2010 11:43	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	103275705002	11/27/2010 11:43	Eric L Eby	1
07053	Copper	SW-846 6010B	1	103275705002	11/27/2010 11:43	Eric L Eby	1
07055	Lead	SW-846 6010B	1	103275705002	11/27/2010 11:43	Eric L Eby	1
07058	Manganese	SW-846 6010B	1	103275705002	11/27/2010 11:43	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	103275705002	11/27/2010 11:43	Eric L Eby	1
07066	Silver	SW-846 6010B	1	103275705002	11/27/2010 11:43	Eric L Eby	1
07072	Zinc	SW-846 6010B	1	103275705002	11/27/2010 11:43	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	103275713006	11/24/2010 07:39	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	103275705002	11/23/2010 20:30	Mirit S Shenouda	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	103275713006	11/23/2010 16:50	Nelli S Markaryan	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	10326-482-0947C	11/22/2010 16:15	Darin P Wagner	n.a.

Attachment 1

Lancaster Laboratories

Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: Mettiki Dryer Ash
SPLP NON-VOLATILE EXTRACTION
Ash Sampling 2010

LLI Sample # TL 6143183
LLI Group # 1221670
Account # 07329

Project Name: Ash Sampling 2010

Collected: 11/16/2010 10:30 by JA

Submitted: 11/17/2010 09:40
Reported: 12/02/2010 10:39

Mettiki Coal Corporation
293 Table Rock Road
Oakland MD 21550

MDAZH

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals		**SW-846 6010B**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	2.12	0.0834	1
07035	Arsenic	7440-38-2	0.0152 J	0.0098	1
07046	Barium	7440-39-3	0.0786	0.00060	1
07049	Cadmium	7440-43-9	N.D.	0.0020	1
07051	Chromium	7440-47-3	N.D.	0.0034	1
07053	Copper	7440-50-8	N.D.	0.0027	1
07055	Lead	7439-92-1	N.D.	0.0069	1
07058	Manganese	7439-96-5	0.0012 J	0.00084	1
07036	Selenium	7782-49-2	N.D.	0.0089	1
07066	Silver	7440-22-4	N.D.	0.0023	1
07072	Zinc	7440-66-6	N.D.	0.0081	1
		SW-846 7470A	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000056	1

General Sample Comments

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01743	Aluminum	SW-846 6010B	1	103275705003	11/24/2010 07:31	Tara L Snyder	1
07035	Arsenic	SW-846 6010B	1	103275705003	11/24/2010 07:31	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	103275705003	11/24/2010 07:31	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	103275705003	11/24/2010 07:31	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	103275705003	11/24/2010 07:31	Tara L Snyder	1
07053	Copper	SW-846 6010B	1	103275705003	11/24/2010 07:31	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	103275705003	11/24/2010 07:31	Tara L Snyder	1
07058	Manganese	SW-846 6010B	1	103275705003	11/24/2010 07:31	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	103275705003	11/24/2010 07:31	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	103275705003	11/24/2010 07:31	Tara L Snyder	1
07072	Zinc	SW-846 6010B	1	103275705003	11/24/2010 07:31	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	103275713003	11/24/2010 06:55	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	103275705003	11/23/2010 20:30	Mirit S Shenouda	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	103275713003	11/23/2010 16:30	Nelli S Markaryan	1
01567	Synthetic Precipitation Leach	SW-846 1312	1	10326-2341-1567A	11/22/2010 16:15	Roza S Goslawska	n.a.